

Work Order ID 44454

July 10, 2009 8:46:07 AM

Page 1

Item ID: D350-689-043

Accept

Revision ID: A

Item Name: Dual High Back Seat Assembly

Start Date: 7/15/09 Start Qty: 4.00

Required Date: 8/03/09 Req'd Qty: 4.00

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start
Stop

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr | Revision Nbr | | | | | | | | |

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-689-043 CHG001

C 7/10/09/116

110

0.00



Large Fab

Large Fab

Memo

0.00

Large Fab

Assemble as per IIN 350-689

C 7/10/09/114 (1)

120

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

2) 7/10/09/114 (4)

7

Work Order ID 44454

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Page 2

Item ID: D350-689-043

Accept

Revision ID: A

Item Name: Dual High Back Seat Assembly

Start Date: 7/15/09 Start Qty: 4.00

Required Date: 8/03/09 Req'd Qty: 4.00

Reference:

Cust Item ID:

Customer:

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME: 11:10 AM OVEN TEMPERATURE:
11:40 AM FINISH TIME: 320°F

09-07-14

ⓧ JV

M109091

140

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

09-07-14 ⓧ

150

Large Fab

0.00



Large Fab

Memo

0.00

Large Fab

Assemble as per IIN 350-689

09/07/15 ⓧ

Work Order ID 44454

July 10, 2009 8:46:07 AM

Page 3

Item ID: D350-689-043

Accept

Setup Start

Revision ID: A

Stop

Item Name: Dual High Back Seat Assembly

Start Date: 7/15/09 Start Qty: 4.00

Cust Item ID:

Required Date: 8/03/09 Req'd Qty: 4.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

160

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

=> 8/2/09/15 (CL) f

170

Identify as per dwg & Stock Location:

0.00



Packaging

Memo

0.00

Packaging

PPP 44405 8/9/15 (1)

180

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

09/07/16 HJ

MF 09-07-15

Picklist Print

July 10, 2009 8:46:06 AM

Page 1

Work Order ID: 44454

Parent Item: D350-689-043RevA

Parent Item Name: Dual High Back Seat Assembly


Comments:

Start Date: 7/15/09

Required Date: 8/03/09

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| AN3-12A  | | Purchased | No | | | 150 | Each | 66.0000 | 12.0000 | | | |
| Bolt | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 66

106605 23

109297 43

D3016-041RevA Manufactured No



Seat Frame Assembly

150 Each 1.0000 8.0000



7109297 (3) / 09/7/10

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 1

45689 1

D3017-041RevA Manufactured No



Back Frame Assembly

110 Each 1.0000 4.0000



45689 (2) / 09/7/10

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 1

44558 1

44558 (1) / 09/7/10

Picklist Print

July 10, 2009 8:46:06 AM

Work Order ID: 44454

Parent Item: D350-689-043RevA

Parent Item Name: Dual Hgt. Back Seat Assembly


Start Date: 7/15/09

Required Date: 8/03/09

Comments:

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| D3021-041RevA | | Manufactured | No | | | 150 | Each | 1.0000 | 4.0000 | | | |
|  | | | | | | | | | | | | |
| Tube Assembly | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

1

44560

1

D3022-1RevB

Manufactured

No

150

Each

1.0000

4.0000



Seat Pan

344560 ① / 09/7/10

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

1

43603

1

D3023-1RevA

Manufactured

No

110

Each

1.0000

4.0000



Back Panel

43623 ① / 09/7/10

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST

1

44565

1

44565 ① / 09/7/10

Picklist Print

July 10, 2009 8:46:06 AM

Work Order ID: 44454

Parent Item: D350-689-04: RevA

Parent Item Name: Dual High Back Seat Assembly


Comments:

Start Date: 7/15/09

Required Date: 8/03/09

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| D3024-1RevA | | Manufactured | No | | | 150 | Each | 14.0000 | 12.0000 | | | |
|  | | | | | | | | | | | | |
| Spacer | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code
Location

Main Warehouse
ST
43394

14
14

43394 (2) 7/17/10

| | | | | | | | | | | | | |
|--|--|--------------|----|--|--|-----|------|---------|--------|--|--|--|
| D3031-1RevA | | Manufactured | No | | | 150 | Each | 19.0000 | 8.0000 | | | |
|  | | | | | | | | | | | | |
| Loop | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code
Location

Main Warehouse
ST
43395

19
19

43395 (2) 7/17/10

| | | | | | | | | | | | | |
|--|--|--------------|----|--|--|-----|------|---------|--------|--|--|--|
| D3808-041RevA | | Manufactured | No | | | 150 | Each | 11.0000 | 8.0000 | | | |
|  | | | | | | | | | | | | |
| Seat Rail Assembly | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code
Location

Main Warehouse
ST
41238
44695

11
1
10

44695 (2) 7/17/10

Picklist Print

July 10, 2009 8:46:06 AM

Page 4

Work Order ID: 44454

Parent Item: D350-689-043RevA

Parent Item Name: Dual High Back Seat Assembly

Start Date: 7/15/09

Required Date: 8/03/09

Comments:

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|

D3809-1RevA

Manufactured

No

150

Each

24.0000

16.0000



Sliding Block

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

24

41118

4

44696

20

MS20600-AD4W2

Purchased

No

110

Each

332.0000

160.0000



Rivet

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

332

109059

132

111359

200

41118 (4) 7/15/09

109059 (4) 7/15/09

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Shop Packet Print

Page 4

Picklist Print

July 10, 2009 8:46:06 AM

Work Order ID: 44454



Parent Item: D350-689-043 RevA



Parent Item Name: Dual High Back Seat Assembly

Start Date: 7/15/09

Required Date: 8/03/09

Comments:

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
| MS20600-AD4W3 | | Purchased | No | | | 150 | Each | 2,789.000 | 24.0000 | | | |
| | | | | | | | | | | | | |
| Cherry Rivets | | | | | | | | | | | | |

Warehouse Loc Qty Loc Code
Location

Main Warehouse

| | |
|--------|------|
| ST | 2789 |
| 102929 | 37 |
| 104715 | 10 |
| 106375 | 742 |
| 107939 | 1000 |
| 111636 | 1000 |

1106375 (6) 8/9/10

MS21042L3 Purchased No



150 Each 1,820.000 92.0000



Nut

Warehouse Loc Qty Loc Code
Location

Main Warehouse

| | |
|--------|------|
| ST | 1820 |
| 110844 | 34 |
| 111274 | 786 |
| 111668 | 1000 |

1111274 (23) 8/9/10

Picklist Print

July 10, 2009 8:46:06 AM

Work Order ID: 44454

Parent Item: D350-689-043RevA

Parent Item Name: Dual High Back Seat Assembly

Start Date: 7/15/09

Required Date: 8/03/09

Comments:

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|

| | | | | | | | | | | | | |
|--------------|--|-----------|----|--|--|-----|------|----------|---------|--|--|--|
| MS24693-S272 | | Purchased | No | | | 150 | Each | 128.0000 | 16.0000 | | | |
|--------------|--|-----------|----|--|--|-----|------|----------|---------|--|--|--|



Screw

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST 128

111295 28

111548 100

| | | | | | | | | | | | | |
|--------------|--|-----------|----|--|--|-----|------|---------|---------|--|--|--|
| MS24694-S148 | | Purchased | No | | | 150 | Each | 75.0000 | 16.0000 | | | |
|--------------|--|-----------|----|--|--|-----|------|---------|---------|--|--|--|



Screw

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST 75

108946 25

108960 50

| | | | | | | | | | | | | |
|------------|--|-----------|----|--|--|-----|------|---------|---------|--|--|--|
| MS24694-S3 | | Purchased | No | | | 150 | Each | 52.0000 | 32.0000 | | | |
|------------|--|-----------|----|--|--|-----|------|---------|---------|--|--|--|



Screw

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST 52

108936 52

111295 (4) 8/4/10

108946 (4) 8/4/10

108936 (8) 8/4/10

July 10, 2009 8:46:06 AM

Shop Packet Print

Picklist Print

July 10, 2009 8:46:06 AM

Page 7

Work Order ID: 44454

Parent Item: D350-689-043RevA

Parent Item Name: Dual High Back Seat Assembly

Comments:

Start Date: 7/15/09

Required Date: 8/03/09

Start Qty: 4.00

Required Qty: 4.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Remaining Qty To Pick | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|--------------------------|---------------|----------------|--------|

MS27039-1-17 Purchased No 150 Each 102.0000 16.0000



Screw

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

102

11540

102

MS27039-1-19 Purchased No 150 Each 59.0000 48.0000



Screw

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

59

100089

59

NAS1149D0332J Purchased No 120 Each 271.0000 92.0000



Washer

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

271

110625

71

110844

200

111540 (4) 8/9/10

110089 (12) 8/9/10

1110625 (23) 8/9/10

July 10, 2009 8:46:06 AM

Shop Packet Print

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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A
AND FLIGHT MANUAL SUPPLEMENT FMS-D350-689 REV. A
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV. 0
REF. CANADIAN STC: SH02-33
REF. FAA STC: SR01620NY

PURPOSE

The purpose of this DSI is to add the D350-689-021 Dual High Back Seat Installation, LH the D350-689-023 Floor Provisions Kit and the D350-689-043 Dual High Back Seat Assembly to IIN-D350-689 Rev. A. The D350-689-021/-023 Kits are compatible with the Energy Attenuating Seat rails in later AS 350/355 model aircraft.

The DSI 9419-011 Kit includes the parts that are required to convert a D350-689-011 installation into a D350-689-021 installation.

w/o 44454

PART LIST

| -011 | -021 | -023 | -043 | P/N | DESCRIPTION |
|------|------|------|------|--------------|---|
| X | | | | DSI 9419-011 | ENERGY ATTENUATING CONVERSION KIT |
| | X | | | D350-689-021 | DUAL HIGH BACK SEAT INSTALLATION, LH |
| | 1 | X | | D350-689-023 | ENERGY ATTENUATING FLOOR PROVISIONS KIT |
| | 1 | | X | D350-689-043 | DUAL HIGH BACK SEAT ASSEMBLY |
| | | | 2 | D3016-041 | SEAT FRAME ASSEMBLY |
| | | | 1 | D3017-041 | BACK FRAME ASSEMBLY |
| | 1 | | | D3018-1 | SEAT CUSHION |
| | 1 | | | D3019-1 | BACK CUSHION |
| | | | 1 | D3021-041 | TUBE ASSEMBLY |
| | | | 1 | D3022-1 | SEAT PAN |
| | | | 1 | D3023-1 | BACK PANEL |
| | | | 3 | D3024-1 | SPACER |
| | | 1 | | D3025-1 | BEAM |
| | | 1 | | D3026-1 | CHANNEL |
| | | 1 | | D3027-1 | CLIP |
| | | 1 | | D3027-3 | CLIP |
| | | 1 | | D3027-5 | CLIP |
| | | 4 | | D3027-7 | CLIP |
| | | | 2 | D3031-1 | LOOP |
| 1 | | 1 | | D3234-1 | DOUBLER |
| 1 | | 1 | | D3234-3 | DOUBLER |
| 2 | | | 2 | D3808-041 | SEAT RAIL ASSEMBLY |
| 4 | | | 4 | D3809-1 | SLIDING BLOCK |
| 1 | | 1 | | D3811-041 | SEAT TRACK ASSEMBLY |

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

| | | | |
|---|---------------|--|--------------|
| A | NEW ISSUE | RF | 08.08.19 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | RF | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | RF | | |
| CHECKED | RF | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9419 | SHEET 1 OF 5 |
| APPROVED | RF | TITLE | SCALE |
| DE APPR. | RF | ENERGY ATTENUATING PROVISION KIT | NTS |
| DATE | | 08.08.19 | |
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| -011 | -021 | -023 | -043 | P/N | DESCRIPTION |
|------|------|------|------|---------------|------------------------|
| | | | 3 | AN3-12A | BOLT |
| 14 | | 14 | | MS20426AD4-5 | RIVET |
| 34 | | 34 | | MS20470AD4-5 | RIVET |
| 18 | | 18 | | MS20470AD4-6 | RIVET |
| | | 32 | | MS20470AD5-6 | RIVET |
| | | | 40 | MS20600AD4W2 | RIVET |
| | | | 6 | MS20600AD4W3 | RIVET |
| 9 | | 9 | 23 | MS21042L3 | NUT (or MS21042-3) |
| | | | 4 | MS24693-S272 | SCREW |
| 8 | | | 8 | MS24694-S3 | SCREW |
| 9 | | 9 | | MS24694-S50 | SCREW |
| 4 | | | 4 | MS24694-S148 | SCREW |
| | | | 4 | MS27039-1-17 | SCREW |
| | | | 12 | MS27039-1-19 | SCREW |
| | | | 23 | NAS1149D0332J | WASHER (or AN960JD10L) |
| 9 | | 9 | | NAS1149D0363J | WASHER (or AN960JD10) |

PROCEDURE




1. Install the under floor structure as outlined in steps 1-18 of IIN-D350-689 Rev. A and DSI 9311 Rev. A as applicable, except do not install D3032-1 Spacers. Attach D3026-1 Channel to floor using (14) MS20426AD4 rivets. Ensure D3234-1/-3 Doublers are installed per DSI 9269 Rev. A.
2. Position the D3811-041 Seat Track Assy at LBL 27.33 as shown in Figure 1 to be in-line with the existing seat rails at LBL 8.98 and LBL 19.16.
3. Transfer the attachment holes from D3811-041 Seat Track Assy to aircraft floor (9 pls) using a $\phi 0.201$ (#7 drill). Deburr holes. Install D3811-041 using (9) MS24694-S50 screws, (9) NAS1149D0363J washers, and (9) MS21042L3 nuts as shown in Figure 1. Torque screws to 20 to 25 in-lbs (2.3 to 2.8 Nm).
4. If converting a -041 Seat Assembly to a -043 Seat Assembly, remove D3028-1 Studs, D3029-1 Springs, and D3030-1 Locks from the D350-689-041 Seat Assembly. Install (2) D3808-041 Seat Rails Assemblies as shown in Figure 1 Detail A using (4) MS24694-S148 Screws. Torque screws to 100 to 140 in-lbs (11.3 to 15.8 Nm). Install D3809-1 Sliding Blocks using (2) MS24694-S3 screws as shown in Figure 1 Detail A. Torque screws to 12 to 15 in-lbs (1.4 to 1.7 Nm).
5. Remove screws from back end of Seat Tracks at LBL 27.33 and LBL 8.98. Slide D350-689-043 Seat Assembly into both seat tracks and lock in desired position using D3810-1 Retractable Spring Plungers. Re-install screws on back of seat tracks per the Aircraft Maintenance Manual.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

| | | | |
|------------|---|--|--------------|
| DESIGN | RF | DART AEROSPACE LTD | |
| DRAWN | RF | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9419 | SHEET 2 OF 5 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | ENERGY ATTENUATING PROVISION KIT | NTS |
| DATE | 08.08.19 | <small>COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |

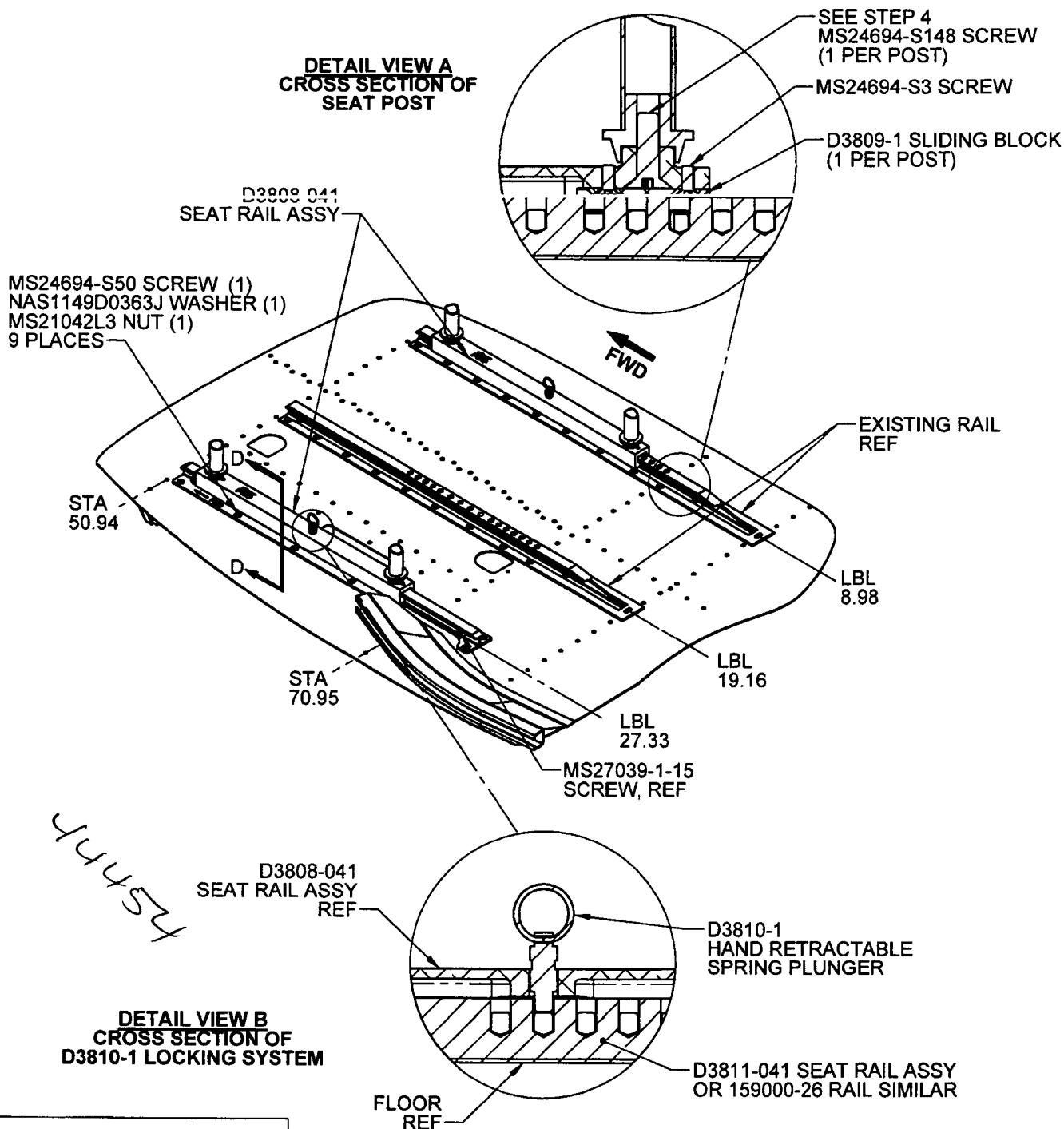


FIGURE 1 D350-689-021 INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

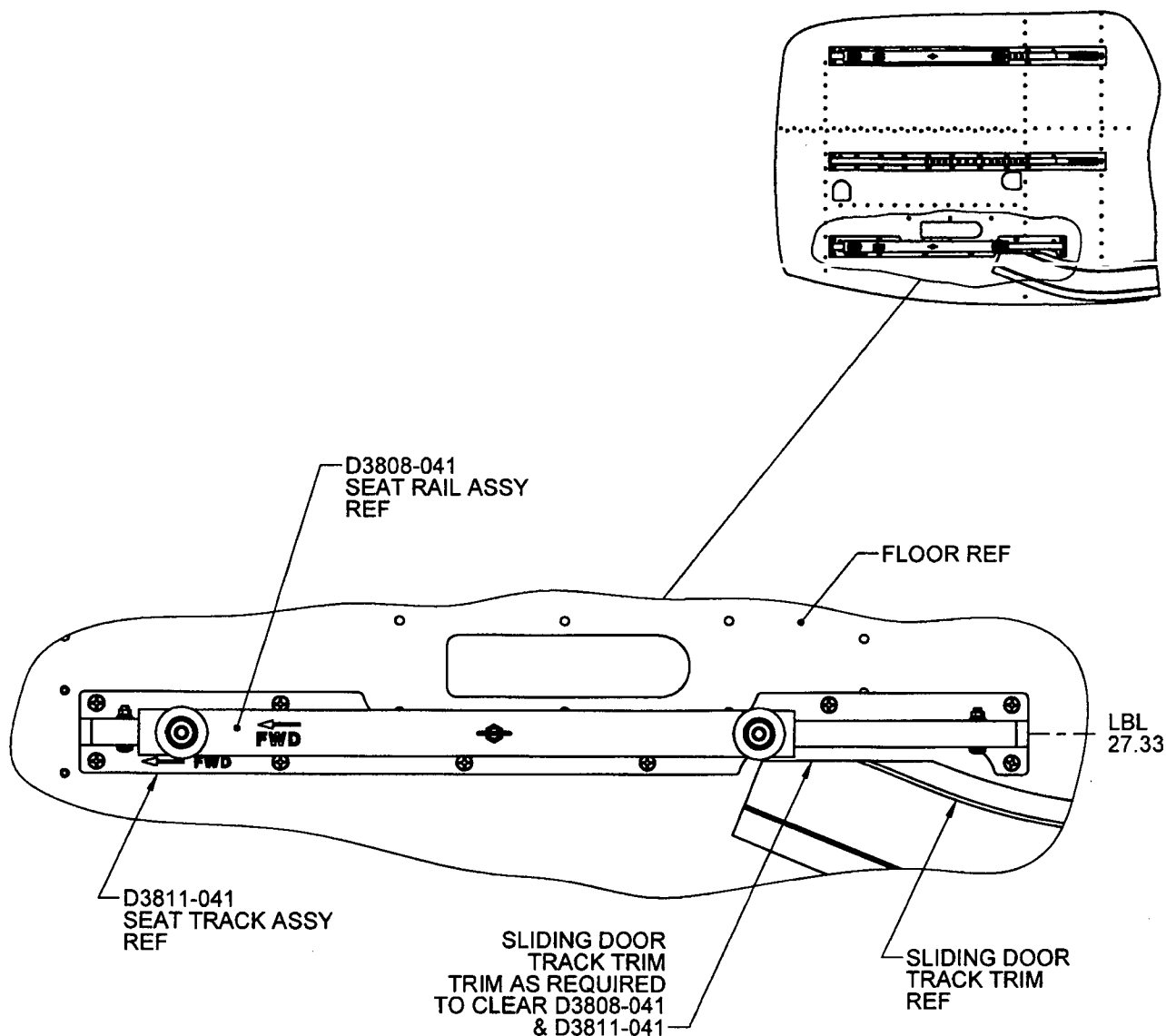
APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

| | | | |
|------------|---------------|---|--------------|
| DESIGN | RF | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | RF | | |
| CHECKED | RF | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9419 | SHEET 3 OF 5 |
| APPROVED | RF | TITLE | SCALE |
| DE APPR. | RF | ENERGY ATTENUATING PROVISION KIT | NTS |
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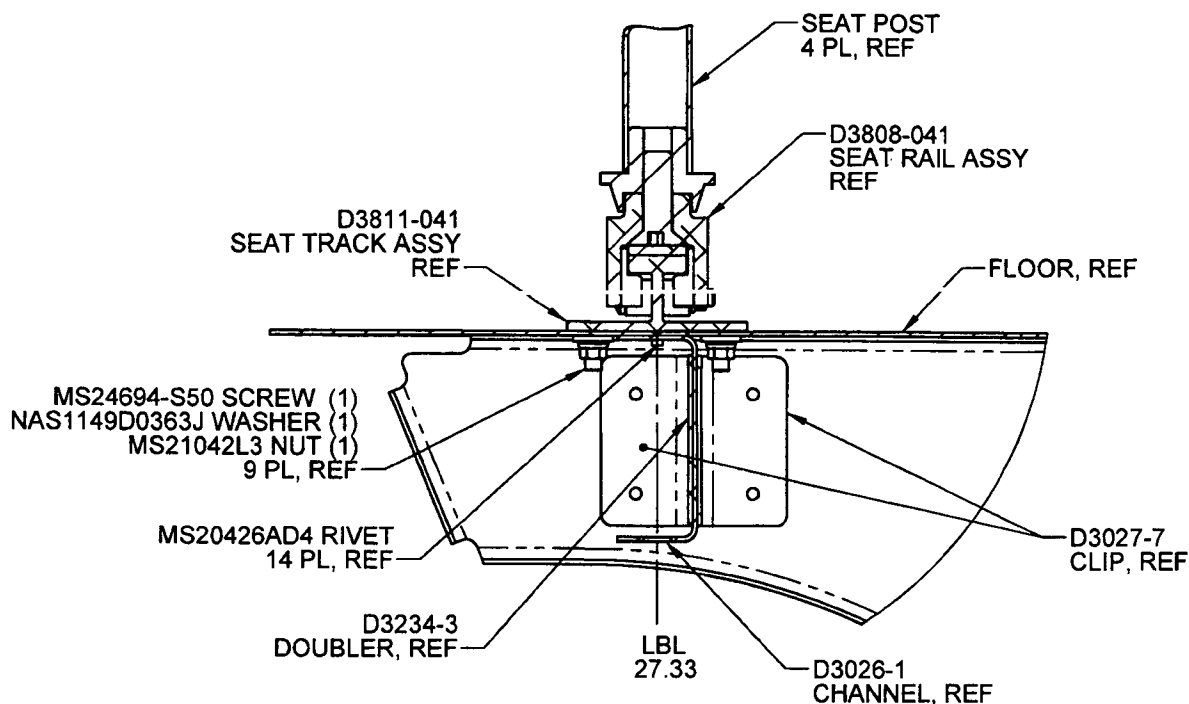


**DETAIL VIEW C
SLIDING DOOR TRACK TRIM**

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)
DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

| | | | |
|------------|-----------------|--|--------------|
| DESIGN | RF | DART AEROSPACE LTD | |
| DRAWN | RF | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | RF | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9419 | SHEET 4 OF 5 |
| APPROVED | RF | TITLE | SCALE |
| DE APPR. | RF | ENERGY ATTENUATING PROVISION KIT | NTS |
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CROSS SECTION D-D

WEIGHT AND BALANCE

The following is the net weight increase associated with the Kits.

| Installation | Weight | LATERAL | | LONGITUDINAL | |
|--|--------------------|---------------------|--------------------------|-------------------|--------------------------|
| | | Arm | Moment | Arm | Moment |
| DSI 9419-011 Energy Attenuating Conversion Kit | 1.1 lb 0.50 kg | -18.2 in -0.46 m | -20 in-lb -0.2 m-k-g | 60.7 in 1.54 m | 67 in-lb 0.77 m-k-g |
| D350-689-021 Dual High Back Seat Installation, LH Fwd Position | 28.6 lb 13.0 kg | -18.2 in -0.46 m | -521 in-lb -6.0 m-k-g | 60.7 in 1.54 m | 1736 in-lb 20.0 m-k-g |
| D350-689-021 Dual High Back Seat Installation, LH Aft Position | 28.6 lb 13.0 kg | -18.2 in -0.46 m | -521 in-lb -6.0 m-k-g | 64.7 in 1.64 m | 1850 in-lb 21.3 m-k-g |
| D350-689-023 Energy Attenuating Floor Provisions Kit | 2.5 lb 1.1 kg | -18.2 in -0.46 m | -46 in-lb -0.5 m-k-g | 62.2 in 1.58 m | 156 in-lb 1.7 m-k-g |

REVISED LOADING CHART

With respect to the Loading Chart in FMS-D350-689, when the Dual High Back Seat has been installed in an aircraft with Energy Attenuating Seat rails per this DSI, the occupants are located at STA 61.02 when the seat is in the Fwd position and at STA 65.02 when the seat is in the Aft position.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

| | | | |
|------------|--------------------|--|--------------|
| DESIGN | RF | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | RF | | |
| CHECKED | <i>[Signature]</i> | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9419 | SHEET 5 OF 5 |
| APPROVED | <i>[Signature]</i> | TITLE | SCALE |
| DE APPR. | <i>[Signature]</i> | ENERGY ATTENUATING PROVISION KIT | NTS |
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L Lacelle

From: Chris Provencal [cprovencal@dartaero.com]
Sent: July 13, 2009 9:37 AM
To: 'L Lacelle'
Subject: RE: dual high back seat...

DSI 9419. It looks like an energy attenuating compatible version of the -041. I hope Sylvie loves a challenge, it looks like there is no real assembly dwg. There's a D3808-041 rail & D3809-1 sliding block that the DSI shows being assembled at the bottom of the legs. Everything else would be assembled per the IIN picture.

From: L Lacelle [mailto:llacelle@dartaero.com]
Sent: July 13, 2009 9:23 AM
To: 'Chris Provencal'
Subject: dual high back seat...

Hi Chris,
I am looking for an assembly dwg for Sylvie for the D350-689-043 – where can I find this? Help

Thank You,
Linda Lacelle
Production Manager
Dart Aerospace Ltd

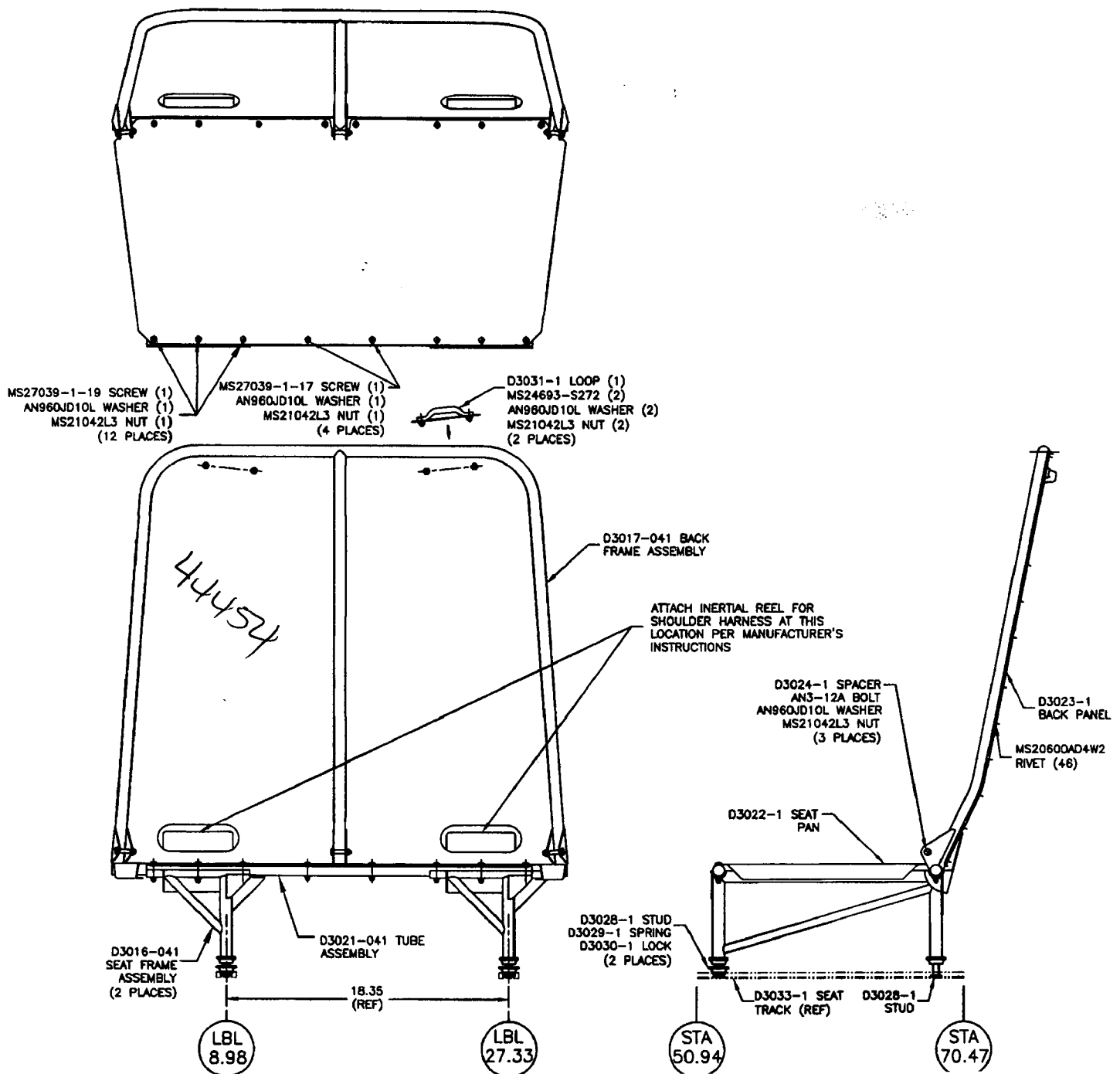


FIGURE 25-5: Installation of D350-689-041 Dual High Back Seat Assembly

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25-00-00

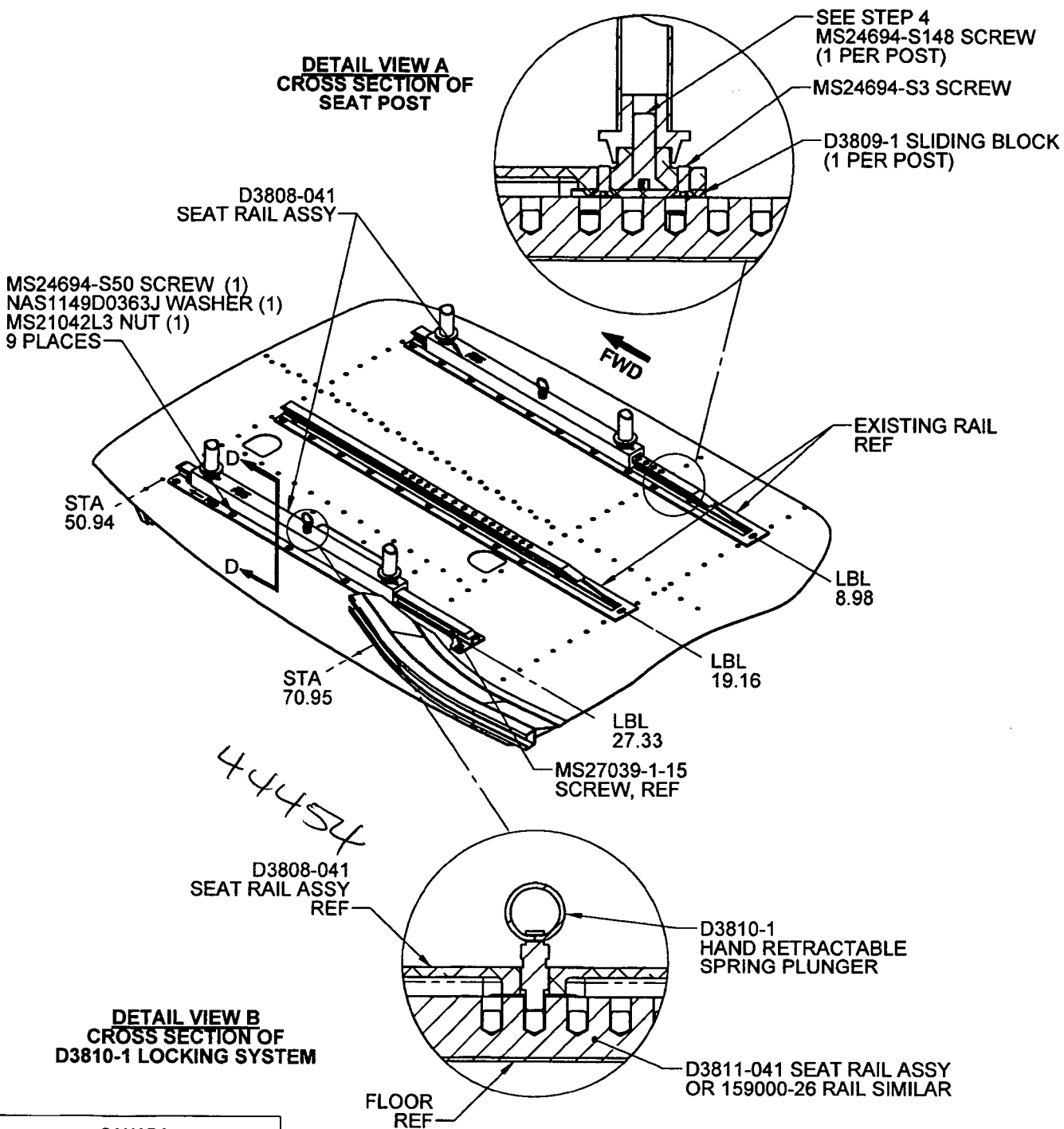


FIGURE 1 D350-663-021 INSTALLATION

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: D. Shepherd
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

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| CHECKED | RF | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9419 | SHEET 3 OF 5 |
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